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- PN - WO9215637 A 19920917
- PD - 1992-09-17
- PR - DE 19914107171 19910306
- OPD - 1991-03-06
- TI - PROCESS FOR MODIFYING THE SURFACE OF MOULDINGS, MOULDINGS SO PRODUCED AND THEIR USE FOR SEPARATING SUBSTANCES BY ADSORPTION
- AB - In a process for modifying the surface of mouldings, the mouldings are grafted with ethylenically unsaturated monomers. A layer of a second polymer is formed on the surface of the moulding, which is made of a first polymer. A third polymer is then formed on the layer of the second polymer by grafting at least one ethylenically unsaturated monomer onto the layer of the second polymer. The invention makes it possible, amongst other things, to limit the grafting to the layer of the second polymer without the first polymer being adversely affected by the intercalation of the graft polymer. The grafted mouldings of the invention can be used, amongst other things, in a separation process based on the principle of adsorptive separation of substances.
- IN - DEMMER WOLFGANG (DE); HOERL HANS-HEINRICH (DE); NUSSBAUMER DIETMAR (DE); WEISS ABDUL RAZAK (DE); WUENN EBERHARD (DE)
- PA - SARTORIUS GMBH (DE)
- EC - B01D67/00J14 ; B01D67/00J18 ; B01J20/32 ; C08J7/04 ; C08J7/16
- IC - B01D71/00 ; B05D7/02 ; C08J7/04 ; C08J7/16
- CT - US 2397231 A [X]; DE 3929648 A [Y]; EP 0186758 A [Y]
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- TI - Surface-modified membranes, etc. useful for adsorptive sepn. - by forming a layer of special polymer on the substrate surface and then grafting with unsatd. monomers
- PR - DE 19914107171 19910306
- PN - JP 3238399B2 B2 20011210 DW 200203 C08J7/16 014pp
- DE 4207171 A 19920910 DW 199238 C08J7/16 014pp
- WO 9215637 A2 19920917 DW 199240 C08J7/04 Ger 042pp
- EP 0527992 A1 19930224 DW 199308 C08J7/04 Ger 042pp
- JP 5508884T T 19931209 DW 199403 C08J7/16 015pp
- DE 4207171 C2 19940519 DW 199418 C08J7/16 015pp
- WO 9215637 A3 19921029 DW 199511 C08J7/16 000pp
- US 5547575 A 19960820 DW 199639 B01D67/00 010pp
- EP 0527992 B1 19980218 DW 199811 C08J7/04 Ger 023pp
- DE 59209198G G 19980326 DW 199818 C08J7/04 000pp
- PA - (SARS) SARTORIUS AG
- IC - B01D15/00 ; B01D67/00 ; B01D71/00 ; B01D71/12 ; B01D71/16 ; B01D71/20 ; B01D71/26 ; B01D71/30 ; B01D71/32 ; B01D71/34 ; B01D71/40 ; B01D71/42 ; B01D71/48 ; B05D7/02 ; C08F8/32 ; C08F8/36 ; C08F283/00 ; C08F283/04 ; C08F285/00 ; C08J7/04 ; C08J7/16 ; D06M11/30 ; D06M15/564 ; D06M15/59 ; D06M15/63
- IN - DEMMER W; HOERL H H; NUSSBAUMER D; WEISS A R; WUENN E; HOERL H; HORL H; WUNN E; WEISS A
- AB - DE 4207171 A process is claimed for the surface modification of formed bodies (I) by grafting with unsatd. monomers; the process involves (a) forming a layer of second polymer (II) on the surface of a moulding made of a first polymer (I) and then (b) forming a layer of third polymer (III) by grafting unsatd. monomer(s) (IV) onto (II). Also claimed are moulded prods. modified by surface grafting as above.
- USE/ADVANTAGE - (I) modified as above are useful for the adsorptive sepn. of substances (claimed). The invention provides a simple process for the surface modification of fabrics, membranes etc., for the above applications, with no internal grafting of the substrate polymer and no adverse effects on the substrate due to the grafting process (contrast irradiation process(Dwg. 0/0))

EPAB - EP-527992 Modification of formed bodies (I) comprises (a) forming a layer of second polymer (II) on the surface of a moulding made of a first polymer (I) and (b) forming a layer of third polymer (III) by grafting unsatd. monomer(s) (IV) onto (II).

- **USE/ADVANTAGE** - Useful for the absorptive sepn. of substances. Simple surface modification of fabrics, membranes etc. avoids internal grafting of the substrate polymer and adverse effects on the substrate due to the grafting process (c.f. irradiation processes). (Dwg. 0/0)
- EP-527992 A process is claimed for the surface modification of formed bodies (I) by grafting with unsatd. monomers; the process involves (a) forming a layer of second polymer (II) on the surface of a moulding made of a first polymer (I) and then (b) forming a layer of third polymer (III) by grafting unsatd. monomer(s) (IV) onto (II). Also claimed are moulded prods. modified by surface grafting as above.
- **USE/ADVANTAGE** - (I) modified as above are useful for the adsorptive sepn. of substances (claimed). The invention provides a simple process for the surface modification of fabrics, membranes etc., for the above applications, with no internal grafting of the substrate polymer and no adverse effects on the substrate due to the grafting process (contrast irradiation process). (Dwg. 0/0)

- USAB** - US5547575 A method of grafting polymerized components onto the surface of a polymeric microporous support membrane comprising the following steps: (a) providing a polymeric microporous support membrane; (b) forming a coated support membrane by coating the support membrane with a coating comprising an N-halogenated compound selected from an N-halogenated polymer and an N-halogenated polymeric precursor; and (c) grafting the coating to the coated support membrane by contacting the same with an ethylenically unsaturated monomer and sodium dithionite in a primarily aqueous solution. (Dwg. 0/0)
- US5547575 A method of grafting polymerized components onto the surface of a polymeric microporous support membrane comprising the following steps: (a) providing a polymeric microporous support membrane; (b) forming a coated support membrane by coating the support membrane with a coating comprising an N-halogenated compound selected from an N-halogenated polymer and an N-halogenated polymeric precursor; and (c) grafting the coating to the coated support membrane by contacting the same with an ethylenically unsaturated monomer and sodium dithionite in a primarily aqueous solution. (Dwg. 0/0)

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CT - No-SR.Pub; DE3929648 cat. Y; EP0186758 cat. Y; US2397231 cat. X

DN - JP US

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